

### NORTH CAROLINA HIGHWAYS & PUBLIC WORKS

Sec. 562, P. L. & R. U. S. POSTAGE PAID

Raleigh, N. C. Permit No. 205

Vol. 4-No. 24

RALEIGH, N. C.

Friday, December 19, 1947

### \$200,000 Loss Caused By December 15 Fire At Fayetteville Shop

Fayetteville - Property losses estimated at \$200,000 were sustained here December 15, when fire destroyed the building and equipment of the Third Division highway shop, largest of its kind in the State.

Spreading swiftly throughout the brick veneer building, the flames started when an electric light cord used by A. R. Nickles, a mechanic who was working on a truck in the shop, short-circuited and ignited the truck's gas line. The fire spread so quickly that the building was almost entirely destroyed by the time that the Fayetteville Fire Department reached the scene. Nickols and another mechanic, A. M. Arthur, sustained minor burns, but 35 other workers who were on duty at the time of the fire escaped from the building uninjured.

Destroyed along with the building, which was a brick veneer of the scene been taken of the scene taken of the part of the scene taken of the scene who was working on a truck in the

ing, which was a brick veneer structure formerly used by the Cape Fear Fair Association, was an estimated \$55-60,000.00 worth of spare parts, several hundred tires and several motor vehicles. Highway workers at the scene of the fire were successful in saving a small amount of office furniture and some of the files of records, but little else, according to Equipment Engineer S. C. Austin.

Commenting on the major (Continued on page four)

### PRICE TRENDS AND SUPPLY

BY R. G. KING Purchasing Department

This week's column is devoted almost entirely to bringing you delivery information which we think will be helpful in determining your nventories in the future. The information is gathered from a leading monnthly publication which has been compiled from reports from leading manufacturers.

There is no indication of either a price recession or a great improvement in deliveries for the next 8 to 12 months. While some items are a little more plentiful others are harder to obtain than at any time since prewar and lists

(Continued on page four)

# A Christmas Message From

H Braham,

Okanina

more than \$40,000,000 to work performed by the group of more than 9,000 employes to every section of the State road improvements have been made, analytic and the higher level of efficiency, and recessary additions have been and appreciation to express my smear thanks are than two years and the network of reads and for the or per part in these great with its own forces, and as a State more than two years and the work of the North Carpina. Highway year in providing a adsumate transcommission, this year has continued postation system to take care of to suffer from shortages of material the progress being made in all and equipment; even though the other lines in this great State. The overall situation is not much best effort as the part of all of us brighter than it was at the hogism. Will be required our thoughly to do ing of the year.

As usual a great declaration with the first of the year.

As usual a great declaration with the first of the year.

As usual a great declaration with the first of the year.

Releigh Exceeding all provided our thoughly to do ing of the year.

As usual, a great deal has been sown of that end. expected from every employe the Commission, and even more Christians Season, and much Happi-(Continued on page four)

With another twelve months of To All Employees of the North

11 Hance Baise,

Chief Engineer

Wishing for each of you a Merry ness in the New Year.

### North Carolina Officials Give Addresses Before SASHO Convention In Miami

Engineer W. Vance Baise, Bituminous Engineer T. V. Fahnestock and Auditor Sam N. Smith, the program of the sixth annual convention of the Southeastern Association of State Highway Officials, held here December 7-11, included active participation by the North Caro- traffic on secondary farm-to-market lina highway delegation.

Speaking before the convention

Miami-Highlighted by addres- on "The Secondary Road Program ses presented by Chief Highway in North Carolina," Engineer Baise outlined the types of construction work currently being carried on in his State and reviewed the policy of the North Carolina Highway Commission with regard to new construction.

"Approximately 90 per cent of roads," Baise told the group, "is

(Continued on page three)

### Wright Bridge Story Published In Organ Of Wood Preservers

Raleigh-"Last Link of Wright Memorial Bridge Under Way by North Carolina" is the title of a story now appearing in WOOD PRESERVING NEWS, house organ of the American Wood Preservers' Association with headquarters in Chicago.

Devoting itself exclusively to stories about wood construction, the publication states: "About twentyfive years after the famous flight

Raleigh-Exceeding all previous November traffic records, the flow of vehicles past the Highway Commission's 20 electric-eye traffic counters last month reached a total of 52,713 units on an average day, acording to James S. Burch. engineer of statistics and planning.

Former record for November, 51,040 vehicles on an average day. was reached in 1941, Burch said. This year's November traffic, however, showed a decline of approximately 2,000 vehicles from the average daily record set in October.

Rain and other weather factors cause a seasonal decline in traffic which can be expected to occur with regularity each year, Burch pointed out. North Carolina's next big upswing in traffic volume is expected in March.

NORTH CAROLINA HIGHWAYS & PUBLIC WORKS Vol. 3 December 19, 1947 No. 24

PUBLISHED BY THE NORTH CAROLINA STATE HIGHWAY & PUBLIC WORKS COMMISSION STATE HIGHWAY BUILDING,

RALEIGH, N. C.

T. C. Wagstaff, Editor

Published semi-monthly by the State Highway and Public Works Commission in the interest of its employees and other citizens who are interested in the activities falling under the jurisdiction of the Commission. Sent free upon written application.

### **MERRY CHRISTMAS!**

Simultaneously, this issue of NORTH CAROLINA HIGH-WAYS & PUBLIC WORKS again celebrates the Christmas season and the anniversary of its own founding, and hopes in so doing, to pass on a measure of cheer and service condition of the State's road so long as it is effective, may to those who happen to give their attention to its pages.

On December 14, 1945, the published as a new venture by the State Highway and Public sults achieved. Works Commission, which aimed at giving the Commisorgan of their own. Purpose of the paper was to print news and editorial matter of especial interest to all persons with the welfare of the North Carolina highway system at heart.

Since the founding of the paper, it has had three men as editors, and the highway picture which it seeks to disclose in December, 1947 is far different from that which existed in December, 1945 when the first issue was published. With World War II just over and work of every sort hamstrung by shortages, the highway situation was gloomy that Christmas.

This Christmas, however, the story is a different one, thanks to the prolonged and overlook possible sources of diligent efforts of all of the danger, and generally be conemployes of the Highway Commission. At the end of currence may take place. 1947 the citizenry of North Carolina can take pride in the that no form of precaution, had some sense.



system. Although perfection be considered unreasonable. is yet far away, much progress has been made during

happy and successful New Year.

### PRECAUTIONS

currence of the recent costly fire at the division shop in Favetteville only goes to show that too much emphasis cannot be laid upon the exercise of all possible safety precautions by all highway workers everywhere that a substantial throughout the State.

Hindsight is usually better than foresight, and it is often easy to assign a reason for any accident after it has happened. Beforehand, it is an easy matter to minimize risks. vinced that no unfortunate oc-

In the case of the fire at Favetteville, possibly the chief first issue of the paper was the past two years, and hard reason for the disaster lay in work is responsible for the re- the fact that nobody thought it could happen. The shop at "that's my night cap." Expecting even more pro- Fayetteville was of brick congress on Tar Heel roads un-struction, it had a concrete sion's 9,000 employes a house der peacetime conditions, we floor, and most of the equipextend to each and every read- ment housed in it was coner of this paper best wishes sidered of a non-inflammable for a Merry Christmas and a nature. But a fire did take place, and spread so quickly that efforts to fight it were of no avail.

> No amount of rehashing of The entirely unforeseen oc- causes will do the Third Division any good, but the fire there, while extremely unfortunate, should serve as an imperative reminder to every highway employe in the State that fire hazards exist almost amount of equipment or materials is gathered together un- Motorist-"How far is it to the der one roof. Realizing that next town?" such hazards exist, and that they must be guarded against, is the first important step toward preventing their development into major disasters.

> After an evening, or a week, or a year you get tired of her good-All of which tends to prove looking legs and wish the woman aren't you glad I stopped praying

### Today's Chuckles

A mother, testifying on behalf of her son, swore that he "worked on a farm ever since he was born.

Triumphantly the opposing lawyer leaned over to her and thundered: "You tell this court that your son worked on a farm ever since he was born?"

"I do."

"What did he do the first year?" "He milked."

Engineer: (as they dined in a private room at a roadhouse): "Erer- how about a little demitasse now, my dear?"

Curvaceous Creature: "I knew it! You weren't treating me like this for nothing."

The ladies met on a train. "I'm from Boston," haughtily remarked one. "There - breeding is everything."

"Well, I'm from St. Louis," said the other. "We like it there too, but its not everything!"

A customs officer, while examining a tourist's baggage, discovered a bottle of whiskey. "I thought you told me there were only night clothes in that suitcase?"

"Right," replied the tourist,

"Really," said Mrs. Scott, reading her paper at breakfast, "the world is getting worse and worse. Just listen to this advertisement: 'Typist wanted, must be young. fast, and experienced."

Jackie, aged eight, was returning from a visit to his grandmother. "Oh, the train was fun," he said when his mother met him. "But," he added, puzzled, Some soldiers were mean to me. You see, when I got on the train, a nice lady came and sat down and we talked till she got off. The minute she left, two soldiers across the aisle came over and bawled me out. They said, "You little weasel, why didn't you say that babe wasn't your mother?"

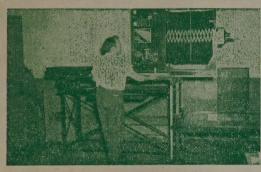
Native-"Nigh on to five miles as the crow flies."

Motorist-"Well, how far is it if a dammed crow has to walk and carry an empty gasoline can?"

Father: "Now, aren't you glad you prayed for a little sister?"

Small Boy (after viewing twin sisters): "We-e-ll, yes, Daddy, but when I did?"

## Blueprinting Is Necessary Phase Of Highway Work







Purely a mechanical function, but blueprinting detailed plans. one which is of prime importance in carrying out almost all of the activities of the State Highway and Public Works Commission, is the manufacture of blueprints, carried black-and-white developer. When out by a staff of four men working at highway headquarters in time, as it frequently does, 1200 Raleigh.

In the course of a year, according to current estimates, the blueprinting department uses more than 85 miles of blueprint paper, and turns out thousands of copies of highway maps and sets of project out by the blueprinters range in plans. Lettings make the heaviest size from small charts measuring work for the blueprint personnel, 81/2 by 11 inches to large maps of for a letting of average size re- the entire State, measuring nine quires at least two weeks' work on feet in length and three-and-a-half ducing blueprints at all times, at Commission organization.

Equipment used in the blueprinting section includes a Number Four photestat machine, a Model 11 Pease blueprint machine and a this equipment is operating full vards of blueprint paper is used during the course of a day. In an average month, the blueprint men estimate, 60-65 rolls of blueprint paper are used.

Individual pieces of work turned

feet in width. Work done includes times their work is composed almost standard blueprints, Van Dyke prints and black-and-white reproductions. For any project included in a letting, at least 10 complete and detailed sets of plans must be reproduced by the blueprint departmen. Contractors who enter bids on the projects are charged a flat fee of \$5.00 for a set of plans, regardless of the size of the project. After the letting, the contractor to whom the contract is awarded is furnished as many sets of plans as he needs to do the work, without further charge.

Although all members of the blueprinting department are not pro-

exclusively of rush jobs. At other times, their volume of production is much lighter, but all hands must be on call to begin work on a new job at a moment's notice. Men now doing the blueprinting work in Raleigh are Paul Pearson, C. G. Sugg, Charles Lassiter and Frank Putnam. All of these men acquired their skill in making blueprints while on their present job, each man learning from some former Highway Commission employe who had been assigned to the blueprint room. In turn, a number of former blueprint experts have been assigned to other work within the

### Right-Of-Way Agreements Are Secured For First Link Of Boulevard In Charlotte

Charlotte-Final negotiations to secure the right-of-way for the first link of the proposed crosstown boulevard across 133 pieces of property at a cost of more than half a million dollars are now underway here, according to Ben E. Douglas, Seventh Division member of the State Highway and Public Works Commission.

Bids for clearing the right-of-way along the route of the highway will be asked within the near future, Douglas said. Letting of the contract for construction of the project will probably take place next Spring, he stated.

First link of the proposed highway will extend from East Morehead to Seventh street. Completion o fthis portion of the highway may be possible by the end of 1948, Commissioner Douglas revealed. Second link of the project is planned to extend from Seventh Street to the Monroe road. Purpose of the highway is to provide a by-pass route connected with U.S. 74 which will make it possible for through traffic to avoid the more congested streets near the center of the city.

In contrast to the normal pro- lives.

cedure of the State Highway and Public Works Commission, negotiations for securing the right-of-way for the boulevard were conducted by a specially-appointed local real estate board composed of J. E. Barrentine, S. B. McLaughlin and Louis H. Meyer. For some time the idea of a cross-town boulevard has met with determined opposition from a group of property owners whose holdings lay along the route of the highway. Action of the threeman board is credited with the success achieved in securing the rightof-way necessary to begin construction of the first link of the new project.

Plans for the boulevard call for a completed width of 82 feet, and final cost of the project is estimated in the neighborhood of \$2,000,000 .-00. Cost of the project will be borne jointly by the State Highway and Public Works Commission, the Federal government and the City of Charlotte.

The cutting teeth of beavers continue to grow throughout their

### NORTH CAROLINA

(Continued from page one) local. In order to best serve these people it is necessary to construct and improve the roads where people live. It therefore, has been our purpose to construct secondary roads on a reasonably safe alignment and grades, securing as much sight distance as feasible, depending to some extent on the amount of traffic which the road carries."

"In the improvement of these roads," he asserted, "we have followed a policy of giving first preference to those carrying the largest volume of traffic, as well as those which will reduce the maximum travel distance to a paved or improved highway to a minimum."

Pointing out that "more than 75 per cent of the rural traffic in North Carolina is on the primary highway system," Baise warned against over-emphasis on secondary construction at the expense of neglecting the primary system. "Our primary system," he stated, "was to a great extent obsolete prior to the beginning of World War II, and practically no work was done during that time in improving this system, as all efforts

standardizing this system over the next few years, and since these roads carry the vast majority of rural traffic we cannot neglect them while involved in the dual task of getting the farmer out of the mud and maintaining the secondary road system."

Addresing the committee on road design and construction, Bituminous Engineer T. V. Fahnestock outlined the chief methods of bituminous surfacing employed in North Carolina, while Auditor Sam N. Smith delivered an address on "Ways and Means of Financing Highway Construction and Maintenance." C. E. Proudley, engineer of materials and tests, was unable to attend the convention in person, but sent an address to be read.

### \$200,000 LOSS

(Continued from page one) suffered by the State Highway and Public Works Commission, Chairman A. H. Graham said that vehicles and equipment used in the Third Division would be serviced temporarily in the shops of the surrounding divisions, and that every possible effort would be made to erect a temporary shop building were given to the war effort. It, in Fayetteville in the near future. therefore, means that much greater | The Third Division area served by effort and cost will be involved in the shop included eight counties.

### U.S. 64 PROJECT NEAR COMPLETION



Now in its final stages, paving work on U.S. 64 east of Raleigh will, when completed, provide a modern dual lane highway separated by a landscaped median strip. Totaling 2.16 miles in length, the project extends from Tarboro Street in Raleigh to a point 1,100 feet west of the Crabtree Creek Bridge. (Photo by Owen Ballance)

### Letting Of December 16 Brings Cost Of 1947 Contracts To \$27,734,895.08

Bringing to \$27,228,895.08 the total estimated cost of contract construction in North Carolina for 1947, the State Highway and Public Works Commission on December 16 received low bids totaling \$1,734,-128.28 on a list of 11 Federal-aid highway projects covering 72 miles of roadway in 13 counties.

The letting, which was the last for the year, brough a total of 94 bids on the list of 11 projects. Highway Commission Chairman A. H. Graham stated that "competition at the letting was keen, but prices are still quite high because of increases in the cost of transportation and materials, especialy asphalt." Expressing satisfaction with the number of bids, he said that he considered "the majority of the bids reasonable."

Projects included in the letting, and low bidders, were:

Federal-aid

Halifax-Grading and bituminous surfacing of 10.92 miles from a point south of Roanoke Rapids toward Colliers Fork on county road, Nello L. Teer, Durham, roadway, \$174,364.50; E. P. Brinkley, Raleigh, structures, \$20,189.00.

Jones-Lenoir — Grading, surfacing and structures of 8.99 miles on U.S. 258 from a point north of intersection with N.C. 41 at Hargetts store north toward Kinston, Barrus Construction Company, Kinston, \$157,722.00.

Columbus Grading, surfacing structures of 13.17 miles from U.S. 701 in Habor City southeast to Nakina-Dotham and from N.C. 904 east to intersection, Sloan Construction Company, Greenville, S. C., roadway, \$214,618,33; Bowers Construction Company, Raleigh, \$27,276.00, structures.

Columbus-Grading and surfacing of 6.18 miles from a point 2.5 miles north of Nakina south through Nakina to Bugg Hill, Sloan Construction Company, \$102,-895.40.

Cumberland-Structures and approaches of 0.36 miles at Beaver Creek, approximately 3.9 miles west of Fayetteville, Ziegler-Cline Construction Company, Fayetteville, \$55.874.64.

- Grading, bituminous Johnston-Nash surfacing and structures of 10.17 miles from a point on county road 1.5 miles south of Wendell to a point one mile northeast of Johnston county line, Wayne Engineering and Construction Company, Mount Olive, \$154,587.80, roadway; John H. Brinkley, Thomasville, \$36,505.50, struc-

Moore - Grading, bituminous surfacing and structures of 5.61 miles from N.C. 705 in Robbins northeast to N.C. 22, E. W. Grannis Company Fayetteville, \$121,324.50.

Anson - Grading and structures of 5.91 miles on N.C. 742 from a point 9.5 miles northwest of Wadesboro to a point northwest of Burnsville school, Kiker and Yount, Reidsville, \$80,039.80, roadway; Bowers Construction Company, Raleigh, \$75,594.00, structures.

Wilkes - Grading, bituminous surfacing and structures of 3.79 miles on N.C. 268 from a point in Wilkesboro 850 feet west of N.C. 16 and N.C. 18 west toward Patterson, Suber and Company, Whitmire, S. .C., \$96,029.50, roadway; John H. Brinkley, Thomasville, \$42,079.00, struc-

Burke - Grading, bituminous surfacing and structures of 7.12 miles from U.S. 70 in Valdese toward N.C. 18, E. W. Grannis Company, Favetteville, \$226,302.70, roadbury, \$66,211.60, structures.

Rutherford-Polk - Structures for bridge over Broad River on county road 8.5 miles south of Spindale, E. W. Grannis Company, Favetteville, \$82,568.00.

### PRICE TRENDS

(Continued from page one) showing increased prices continue to pour in on almost al kinds of parts.

As a note of explanation, we would like to point out that in some instances the following deliveries will not coincide with deliveries now being seen in various items equipment, supplies and repair ordered by us, some will be slower while others will be even longer.

### D PRODUCTS SPECIAL ORDER

to 4 Months

to 4 Months

Stock to 2 Weeks

to 12 Months

0 to 30 Months

tock

tock

Months

2 Weeks

Months

Months

Months

0 Months

Weeks

0 - 60 Days

to 6 Months to 8 Months

0 to 24 Weeks to 5 Months

except aircraft

0 to 12 Months

to 24 Months

to 3 Weeks

to 3 Weeks

to 8 Weeks

ITEM STANDAL	R
Bearings, Ball	3
Bearings, Roller	3
Bearings, Bronze	5
Blocks, Pillow	9
Belting, Transmission	2
Belts, V Rubber	5
Chain, Steel	1
Chain, Malleable Iron	1
Paint Spraying Equipment	1
Bags, Paper	3
Electric Wire Cable	5
Insulated Wire Cable	6
Weatherproof Wire	2
Flexible Conduits	1
Electric Generators	
Electric Motors, 1-15 HP	3
Electric Motors, 20-75 HP	4
Fractional HP - All fractional	•
Gas Engines, Air Cooled	1
Gas Engines, Single Cylinder	6
Gas Engines, Four Cylinder	1
Bolts, Nuts & Screws	1
Leather Gaskets	2
Oil Seal Gaskets	2
Felt Gaskets	2
Gears	2
Grinding Wheels (Vitrified)	
Grinding Wheels (Resinoid)	670
Hose, Flexible, Assemblies	2
Hose, Molded & Braided	2
Lighting Equipment	4

Lumber, White Pine - Delayed Delivery - Mills oversold Lumber, Yellow Pine Lumber, Cypress Conveyors Conveyor Belting **Bucket Elevators** Centrifugal Pumps Power Pumps Hydraulic Pumps Steel - on a quarterly quota basis Twist Drills

Weeks Stock to 2 Weeks Stock to 6 Months to 6 Months 2 Months 1 to 2 Months 6 Weeks 10 Months 4 Months Stock to 8 Weeks 16 Weeks 24 Weeks 1 to 2 Weeks 1 to 3 Weeks Stock to 120 Days 4 to 5 Months

4 to 6 Months 4 to 8 Months 10 to 24 Weeks 12 Months 2 Months 12 Weeks 1 to 6 Months 14 to 36 Months 24 Weeks 60 - 90 Days 5 to 6 Months 6 to 8 Months 20 to 24 Weeks 11/2 to 6 Months 8 to 10 Months 7 Months 10 Months 2 Years 10 Months

1 to 24 Months 2 to 8 Weeks 12 Weeks 3 to 4 Weeks 10 Months 4 to 6 Weeks 3 Weeks 30 - 90 Days Stock to 6 Months 8 to 12 Months Unobtainable 12 Weeks 10 Months 5 Months 8 to 24 Weeks 24 Weeks

15 Months

3 to 4 Weeks 4 to 5 Weeks

### WRIGHT BRIDGE

Reamers

Chain Link Fence

Valves

(Continued from page one) of the entire substructure of the bridge."

"The late William L. Craven was succeeded in 1945 as bridge engineer by T. B. Gunter, Jr., who had served for several years as assistant bridge engineer. The materials for rebuilding the structure were procured under the direction of C. B. Taylor, bridge maintenance engineer, who was in way; Wilson Construction Company, Salis- charge of the construction work. J. B. Broach, senior construction engineer, was responsible for certification of treatment of materials."

#### A. H. GRAHAM

(Continued from page one) service has been received in the form of achievements above and beyond the call of duty. In many cases, employes have overcome adverse conditions of weather and circumstances to turn in an exceptionally fine account of them-

At this Christmas season, therefore, I wish to extend to each and every employe my personal appreciation for the outstanding work done in 1947, and to wish you a Merry Christmas and a successful and prosperous New Year.